

Spherical colored polyester particles, process for their preparation, and their use for powder coatings

Patent Number: US6261690
Publication date: 2001-07-17
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Requested Patent: DE19705962
Application Number: US19990367475 19990813
Priority Number(s): DE19971005962 19970217; WO1998EP00748 19980211
IPC Classification: B32B15/02 ; C08G63/02
EC Classification: C08G63/78, C08G63/81, C08J3/20E, C09D167/02
Equivalents: AU6621698, AU731864, BR9807403, EP0960151 (WO9836011), NO993934, PL335137, TR9901977T, TW432101, WO9836011, ZA9801244

Abstract

The invention relates to homogeneously colored polyester particles having a mean particle size $<50 \mu\text{m}$ and a monomodal particle size distribution with a span $(=d_{90}-d_{10}/d_{50}) \leq 2.5$, which can be melted at temperatures $<200^\circ\text{C}$. to form a continuous coating, to a process for their preparation and to their use for powder coatings. In a preferred embodiment the particles comprise units of formulae (1) and (2) where X is a substituted or unsubstituted C6 to C14 aromatic radical or an alkylene, polymethylene, cycloalkane or dimethylene-cycloalkane group or a straight-chain or branched, saturated or unsaturated alkanediyl group and D is an alkylene, polymethylene, cycloalkane or dimethylene-cycloalkane group or a straight-chain or branched, saturated or unsaturated alkanediyl group

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